

Product Data Sheet

Product Name: MAHMA NONOate

Cat. No.: GC19529

Chemical Properties

Cas. No. 146724-86-9

Chemical Name (Z)-1-[N-Methyl-N-[6-(N-methylammoniohexyl)amino]]diazene-1-ium-1,2-diolate

SMILES C[N+](C)(C)CCCCCN(N(N=O)[O-])C

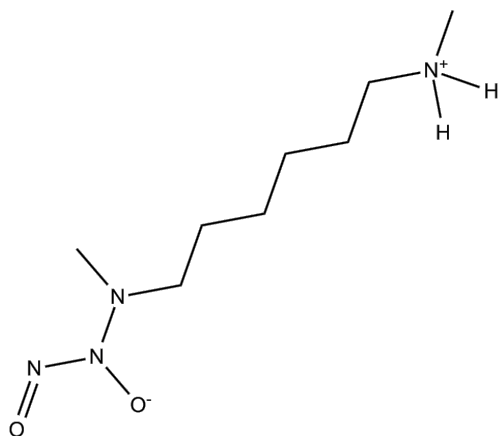
Formula $C_8H_{20}N_4O_2$ M.Wt 204.3

Solubility H_2O : 62.5 mg/mL (305.97 mM; adjust pH to 10 with NaOH) Storage Store at $-80^{\circ}C$, protect from light

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

MAHMA NONOate is a NO donor. It spontaneously dissociates in a pH-dependent, first-order process with a half-life of 1 minute and 3 minutes at $37^{\circ}C$ and $22-25^{\circ}C$, respectively, (pH 7.4) to liberate 2 moles of NO per mole of parent compound.[1],[2]

Reference:

Caution: Product has not been fully validated for medical applications. For research use only.

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- [1]. Hrabie, J.A., Klose, J.R., Wink, D.A., et al. New nitric oxide-releasing zwitterions derived from polyamines The Journal of Organic Chemistry 58, 1472-1476 (1993).
- [2]. Keefer, L.K., Nims, R.W., Davies, K.M., et al. "NONOates" (1-substituted diazen-1-ium-1,2-diolates) as nitric oxide donors: Convenient nitric oxide dosage forms Methods in Enzymology 268, 281-293 (1996).

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